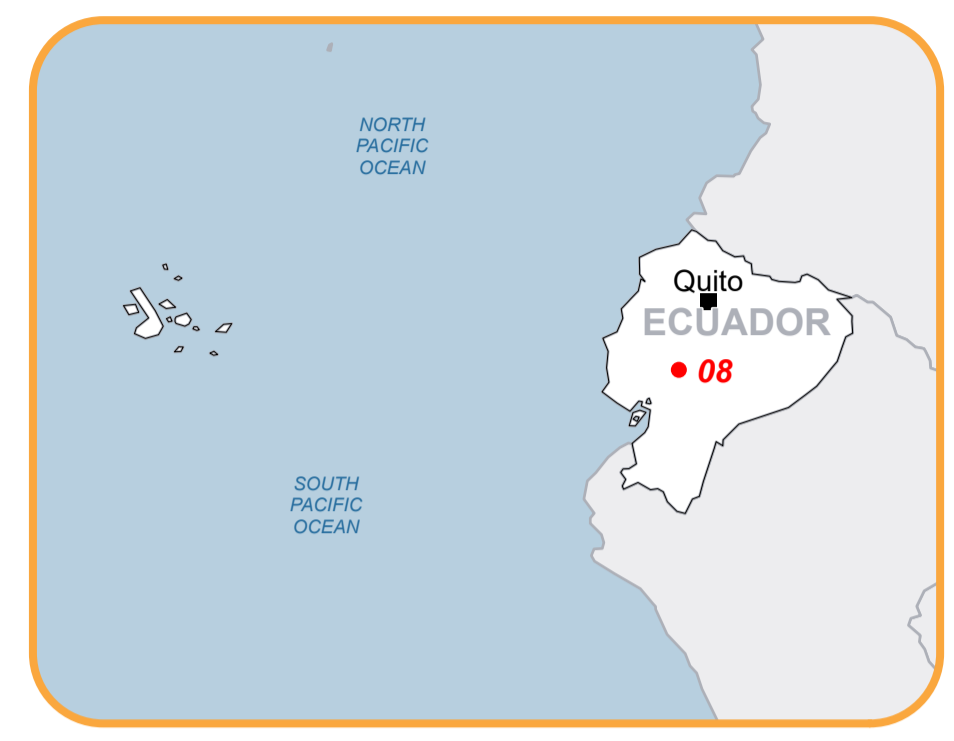


 **EMSR870 - AOI08**
Flood in Ecuador
MONTALVO

Situation as of 13/03/2026 23:37 UTC
Delineation - Overview map 01



 **Flooded area**
EO-based 1,695.7 ha
Model-based 1,828.8 ha

 **Potentially affected population**
~ 370

Potentially Affected Transportations

 **Road**
14.2 km

- | Estimated flood depth (m) | Hydrography |
|---------------------------|------------------------------------|
| Below 0.50 | Lake, River |
| 0.50 to 1.00 | Facilities |
| 1.00 to 2.00 | Long-distance pipelines or lines |
| 2.00 to 4.00 | Mining or extraction site |
| Above 4.00 | Sport and recreation constructions |
- | General Information | Transportation |
|---|---------------------------------|
| Area of Interest | Dump Site |
| Detail map | Water or Aquatic infrastructure |
| Built-Up Area | Transportation |
| Residential | Main road |
| Non residential | Local road |
| School, university and research buildings | Track |
| Hospital or institutional care buildings | |

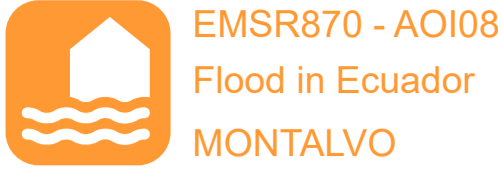
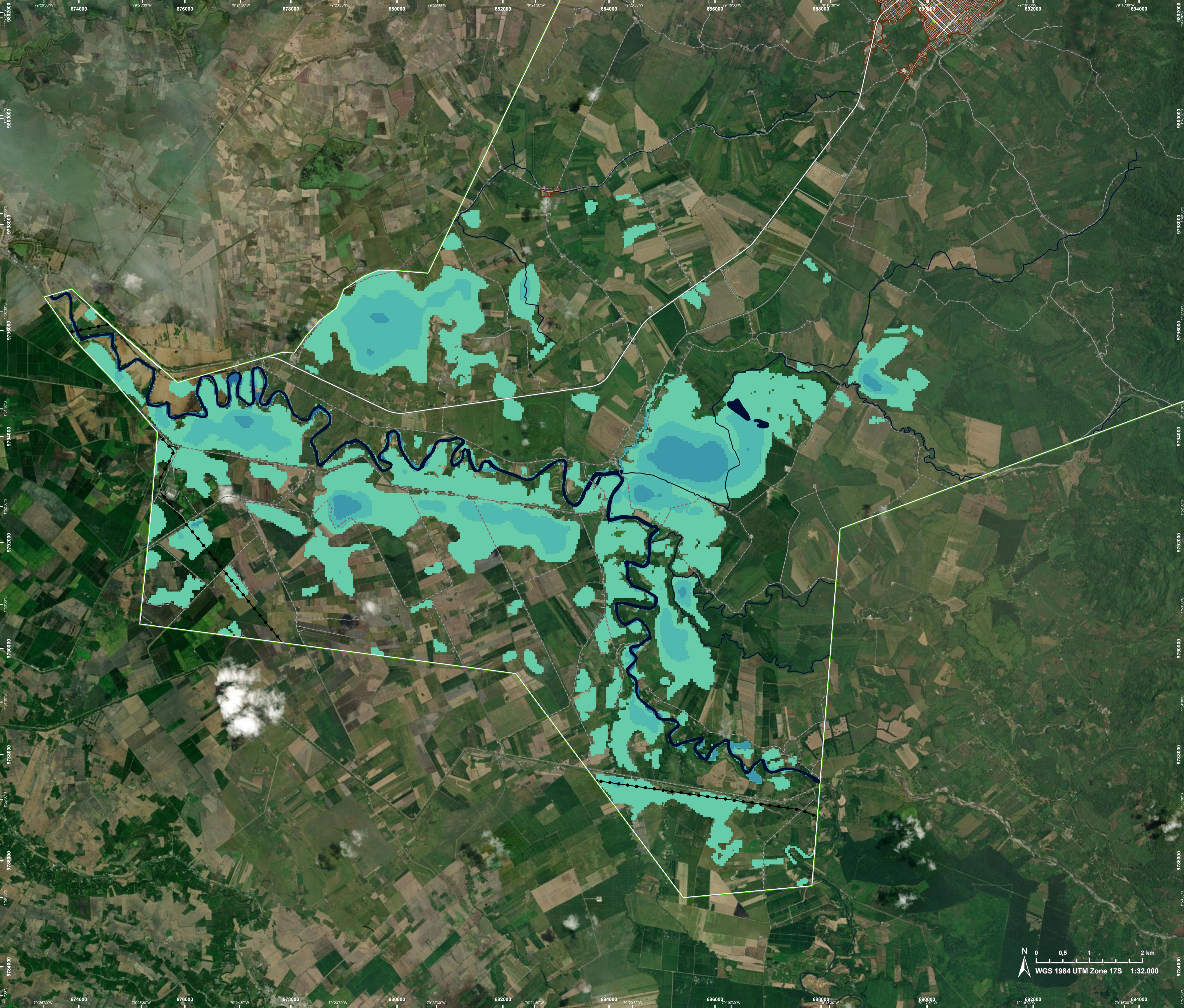
Event: In the beginning of March 2026, heavy rainfall has been reported to have affected Ecuador, triggering flash floods, floods and landslides. The event is on-going and affecting large part of the country. The National Secretary for Risk Management asks for Rapid Mapping to analyse the flooded areas across the country. Copernicus EMS Rapid Mapping is requested to provide Delineation products, detection of landslides and estimation of affected population.

Data sources and analysis: Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 09/04/2024, resolution 0.6 m).
Post-event image: Sentinel-1 (2026) (acquired on 13/03/2026 at 23:36 UTC and 23:37 UTC, resolution 20.0 m).
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

An extrapolated flood extent is generated by integrating observed flood areas with a Digital Terrain Model (DTM). The model's accuracy and spatial coverage depend on DTM resolution and quality, enabling the prediction of potentially flooded areas in regions with limited visibility in imagery, such as urban and forested zones.



Situation as of 13/03/2026 23:37 UTC
Delineation - Detail map 02



- Estimated flood depth (m)**

 - Below 0.50
 - 0.50 to 1.00
 - 1.00 to 2.00
 - 2.00 to 4.00
 - Above 4.00

General Information

 - Area of Interest

Built-Up Area

 - Residential
 - Non residential
- Hydrography**

 - Lake, River

Facilities

 - Long-distance pipelines or lines
 - Sport and recreation constructions

Transportation

 - Main road
 - Local road
 - Track

Event: In the beginning of March 2026, heavy rainfall has been reported to have affected Ecuador, triggering flash floods, floods and landslides. The event is on-going and affecting large part of the country. The National Secretary for Risk Management asks for Rapid Mapping to analyse the flooded areas across the country. Copernicus EMS Rapid Mapping is requested to provide Delineation products, detection of landslides and estimation of affected population.

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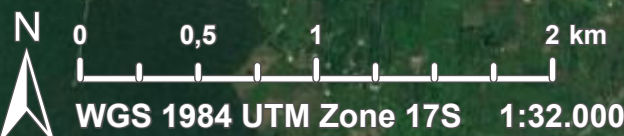
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Map produced by e-GEOS released by e-GEOS on the 14/03/2026.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR870>



Consequences within the AOI

				LATEST IMPACT		
			Unit of measurement	Imagery-based observation*	Model-based output	Imagery- and Model-based results
Crisis information	Flooded area		ha	1.695,7	1.828,8	3.524,6
	Maximum of all extents**		ha	1.695,7	1.828,8	3.524,6

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population	Inhabitants	No.		~ 70	~ 300	~ 370	~ 74.000
Assets	Built-up	Residential Buildings	ha	0	0	0	455,2
		Industrial buildings	ha	0	0	0	6,1
		School, university and research buildings	ha	0	0	0	0,8
		Hospital or institutional care buildings	ha	0	0	0	0,2
		Cemetery	ha	0	0	0	1,3
		Building block	ha	0	0	0	68,0
	Transportation	Primary Road	km	0	0,4	0,4	130,7
		Secondary Road	km	0	0	0	44,1
		Local Road	km	0	0,1	0,1	491,5
		Cart Track	km	1,9	11,8	13,7	875,7
	Facilities	Settling Basin	ha	0	0	0	0,1
		Constructions for mining or extraction	ha	0	0	0	0,7
		Sport and recreation constructions	ha	0	0	0	8,2
		Other civil engineering works not elsewhere classified	ha	0	0	0	1,5
		Long-distance pipelines, communication and electricity lines	km	1,5	2,6	4,1	64,0
	Land use	Heterogeneous agricultural areas	ha	939,9	1.086,0	2.025,9	20.426,2
		Inland wetlands	ha	524,5	502,5	1.027,0	2.632,6
		Shrub and/or herbaceous vegetation association	ha	193,1	199,6	392,7	19.054,5
		Forests	ha	38,2	40,7	78,9	49.221,4
		Other	ha	0	0	0	561,5

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water

** Corresponds to the geographic union (and NOT the sum) of all Crisis Information extents.

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-manual/>

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Data Access:

All data displayed on the map(s), as well as Land Use - Land Cover layer(s), are available in the Crisis Information Package and the Base Layer Package (for reference data). The table above is available in editable format in the Crisis Information Package. All products and data are also available for download on the portal.

Estimated Population:

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset. Additional population datasets and analysis are available in the summary table.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2026); Wikimapia.org; GeoNames 2015; © EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2024. Copernicus Global Land Service: Land Cover (2019).

Inset Maps: Natural Earth 2023; HydroLAKES 2016 by HydroSHEDS;

© EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2024.

Digital Elevation Model:

FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30

Access to the portal

